

BOBBY JINDAL
GOVERNOR



HAROLD LEGGETT, PH.D.
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No.:

Activity No.: PER20090031
Agency Interest No.: 1255

Ms. Esther Liggio
Environmental Manager
PPG Industries, Inc.
P. O. Box 1000
Lake Charles, LA 70602

RE: Part 70 Operating Permit Modification, Lake Charles Complex – Derivatives Plant Common Sources, PPG Industries, Inc., Lake Charles, Calcasieu Parish, Louisiana

Dear Ms. Liggio:

This is to inform you that the permit modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the 29th of June, 2011, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this _____ day of _____, 2010.

Permit No.: 2269-V3

Sincerely,

Cheryl Sonnier Nolan
Assistant Secretary
CSN:QMZ
cc: EPA Region VI

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**LAKE CHARLES COMPLEX – DERIVATIVES PLANT COMMON SOURCES
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PPG INDUSTRIES, INC.
LAKE CHARLES, CALCASIEU PARISH, LOUISIANA**

I. Background

The Lake Charles Complex is a chemical manufacturing facility. It is organized into the following units/areas: VC Production, Power/Utilities, Silicas, Complex Support Facilities, Chlor/Alkali Plant, Mercury Recovery, Membrane, Derivatives Docks, Derivatives Shipping, Derivatives Plant Common Sources, Greater EDC, Waste Recovery, Per/Tri, TE-2, and Incinerators Area.

This is a modification to Part 70 Operating Permit No. 2269-V2 for Derivatives Plant Common Sources, which was issued on July 28, 2009.

II. Origin

A permit application dated November 30, 2009 was submitted by PPG Industries, Inc. requesting a Part 70 operating permit modification for the reference facility.

III. Description

This facility treats wastewater from the chemical production processes, maintenance activities, HSWA (Hazardous and Solid Waste Amendments) remediation activities, and stormwater resulting from rain events. It consists of the following operating systems/equipment:

Wastewater Collection/Transfer Facilities

The collection system for three complex stripper systems includes numerous sewer systems and their respective lift stations that collect wastewater or stormwater. The upstream portions of the collection system consist of various collection and containment devices, including trenches, hard piping, drains, manholes, and junction boxes. These upstream sewer systems are routed to the lift stations that in turn send the wastewater to the treatment systems as described below.

WTU Stripper System

The Wastewater Treatment Unit (WTU) stripper system consists of three steam strippers that treat nonmetals contaminated wastewater from sewer systems throughout the Derivatives area. The wastewater from the sewer collection system is sent to the WTU settlers where the water is separated from the organic phase. The water phase is sent to the WTU feed storage vessels while the organic phase is routed to another area for material recovery or reuse.

From the WTU feed storage vessels, the wastewater passes through a filter before entering the steam strippers for treatment. Second treatment is provided by carbon bed filters, or other necessary treatment, before water is discharged through a NPDES monitoring point. All vents

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from the WTU stripper system are routed to incineration either directly or via a vent compressor system. Condensed organics from this system are routed to the Waste Recovery Unit.

CSS Stripper System

High pH metals contaminated wastewater from the Derivatives Plant is collected and fed to the CSS (Central Steam Stripper) stripper feed storage vessels. Wastewater accumulated in the feed storage vessels is directed through one of two CSS steam strippers. Overheads from the strippers are condensed and sent to a phase separator. CSS strippers system vents are incinerated at one of the on-site incineration systems. Recovered organics from the phase separator are routed to the Waste Recovery Unit.

Per/Tri Steam Stripper System

Two steam strippers are used to treat acidic metals-contaminated wastewater from the Per/Tri Production Unit. The wastewater collected in the Per/Tri stripper feed storage vessels is routed through plate separator to the Per/Tri steam strippers. The Per/Tri stripper bottoms stream may be directed to acid recovery before being routed to the BAT (Best Available Technology) metals removal system for further treatment. Vents for the Per/Tri stripper system are sent to incineration. Recovered organics are routed to the Waste Recovery Unit.

Per/Tri TCA Destruction System

Trichloroacetic acid (TCA), an undesired by-product, is removed in the Per/Tri TCA destruction system from the affected wastewater stream. This system heats the water to a defined temperature and provides the necessary capacity to hold the wastewater at this temperature for a prescribed retention time. This process allows the TCA to break down to chloroform. The wastewater is then cooled and sent to the Per/Tri stripper system.

Sodium Formate Destruction System

The sodium formate destruction system consists of a series of retention vessels and static mixers. It treats the effluent from the CSS steam strippers to remove sodium formate. The CSS stripper bottoms stream flows to this system where, in a series of static mixers, acid and either bleach or a combination of chlorine and caustic or both, are added. The wastewater then flows through a series of retention vessels in which the sodium formate destruction takes place.

Dechlorination System

The dechlorination system uses a chemical additive to convert bleach from the sodium formate destruction section and from PPG's incinerator scrubbing systems to sodium chloride. The first

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of two series of vessels accepts metals-contaminated wastewater. The wastewater stream is treated before it reaches the first series of dechlorination process vessels. The dechlorination is accomplished as the water flows through the mix/reaction vessels. The water is then routed to the BAT metals removal section.

The second dechlorination system treats nonmetals contaminated water. Water is treated to remove chlorine as the water flows through the tanks. This stream is then routed to an NPDS monitored outfall.

BAT Metals Removal

The BAT metals removal process is used to treat metals contaminated wastewater. A pH adjustment system and water treatment additives are used to enhance the flocculation and subsequent precipitation of metals. Settlers and filters are used to remove the metals before the wastewater is sent to further treatment prior to discharge to an NPDES outfall.

Groundwater Collection System

The groundwater collection system is used to collect groundwater pumped from remediation wells at various locations in the Complex. The water is removed either by pumps or vacuum systems. In most cases, the well water is transferred first to a collection tank, then is treated by an air stripper. The vent from the stripper is utilized as a portion of the combustion air for No. 3 Halogen Acid Furnace.

Vacuum Trucks

Vacuum trucks are used in various areas around the plant to facilitate maintenance activities, to transfer liquid streams, and to remove solids. Use of vacuum trucks is limited to those instances where pumping systems are not available or impractical.

This permit modification adds a catalyst separator to the permit for the referenced facility. The proposed catalyst separator operates via a screening process, which removes the catalyst from the reactor catalyst bed to either drums or roll-off boxes for transport and temporary storage of the unprocessed materials. Once screening operations begin, a vacuum unit uses nitrogen to remove reactor-dumped catalyst from the drums or roll-off boxes into the separator. The separator vibrates about its center of mass in order to ultimately separate the catalyst with the use of a mesh sieve inside the separator. The larger particles are separated from the smaller “fines” and discharged from the side of the unit into drums which are weighed to specification, labeled, and stored on pallets for recycling to one of the reactors. The smaller undesirable “fines” fall through the sieve into a roll-off box. Most of the fines

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will be disposed, but in some circumstances where there is a need for a certain proportion of smaller fines in the catalyst blend for the recharging of the beds, such fines may be reused.

The “catalyst screening” with the catalyst separator is a viable means of managing the material to minimize off-site disposal and a cost savings project which reduces virgin catalyst purchase and waste disposal costs.

A carbon drum system is also incorporated into the permit and is used as an alternative device to control emissions from the Groundwater Collection Tank 56A-T-63065, which is in remediation service at PPG’s South Terminal. The primary control device for this tank is the Flameless Thermal Oxidizer (EQT353).

In addition, the reconciliation of certain emission limits, due to new test data, improved emission factors, and other improved information, is made in this permit modification.

Estimated emissions from the Derivatives Plant Common Sources in tons per year are as follows:

Pollutant	Before	After	Change
PM ₁₀	< 0.01	< 0.01	-
SO ₂	< 0.01	< 0.01	-
NO _X	< 0.01	0.09	+ 0.09
CO	0.03	0.05	+ 0.02
VOC *	65.12	68.93	+ 3.81

***VOC LAC 33:III.Chapter 51 Toxic Air Pollutants (TAPs):**

Pollutant	Before	After	Change
1,1,2,2-Tetrachloroethane	2.86	2.98	+ 0.12
1,1,2-Trichloroethane	6.97	6.93	- 0.04
1,1-Dichloroethane	3.56	3.43	- 0.13
1,2,4-Trichlorobenzene	-	0.11	+ 0.11
1,2-Dibromo-3-chloropropane	-	0.01	+ 0.01
1,2-Dichloroethane	13.43	13.130	- 0.300
1,2-Epoxybutane	0.05	0.05	-
1,3-Butadiene	-	< 0.001	< 0.001
1,4-Dichlorobenzene	-	0.03	+ 0.03
1,4-Dioxane	0.01	0.01	-
2,2'-dichlorodiethylether	-	< 0.01	< 0.01
2-nitro-Propane	0.16	0.16	-
Allyl Chloride	-	< 0.001	< 0.01
Benzene	< 0.01	0.01	+ 0.01
Biphenyl	0.10	0.10	-

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Pollutant	Before	After	Change
Carbon Disulfide	< 0.01	< 0.01	-
Carbon Tetrachloride	1.41	1.43	+ 0.02
Chlorobenzene	< 0.01	< 0.001	-
Chloroethane	2.47	2.45	- 0.02
Chloroform	1.17	1.17	-
Chloroprene	-	< 0.01	< 0.01
Hexachlorobutadiene	1.01	1.534	+ 0.524
Hexachloroethane	1.05	1.05	-
Methyl Chloride	< 0.01	< 0.01	-
Toluene	0.02	0.02	-
Trichloroethylene	6.64	7.00	+ 0.36
Vinyl Chloride	3.41	3.26	- 0.15
Vinylidene Chloride	3.59	2.94	- 0.65
Total	47.91	47.80	- 0.11

Other VOC (TPY): 21.13

IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS), and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) review is not required.

This facility is part of a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

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VI. Public Notice

A notice requesting public comment on the permit, per requirement of LAC 33:III.5107.D. was published in *The Advocate*, Baton Rouge, and in the *American Press*, Lake Charles, on [date]. In addition, copies of the public notice were sent to individuals included in the LDEQ mailing list on [date]. All comments will be considered prior to a final permit decision.

VII. Effects on Ambient Air

Emissions associated with the proposed modification were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions.

VIII. General Condition XVII Activities

Work Activity	Schedule	Emission Rates (TPY)
O1 – Sampling	18,250 samples/year	VOC: < 0.01; Other: < 0.01
O3 – Loading Hoses Disconnection	25 times/month	Other: < 0.01
M1 – Pump Clearing	250 pumps/year	VOC: < 0.01; Other: < 0.01
M2 – Miscellaneous Piping Clearing	40 pipes/week	VOC: < 0.01; Other: < 0.01
M3 – Instrument Tubing Clearing	10 feet/week	Other: < 0.01
M4 – Tank Clearing	15 times/year	VOC: 0.16; Other: 0.12
M6 – Steam Stripper System Clearing	70 times/year	VOC: 0.01; Other: 0.01
M12 – Shop Parts Clearing Machine	520 gal/year (solvent)	VOC: 0.19

NOTE: Other = Non-VOC TAPs.

IX. Insignificant Activities

ID No.	Description	Citation
IA1	Formate Bleach Tank	LAC 33:III.501.B.5.A.4
IA2	DTC Storage Tank	LAC 33:III.501.B.5.A.4
IA3	Dechlor Thiosulfate Tank	LAC 33:III.501.B.5.A.4
IA4	Laboratory Emissions	LAC 33:III.501.B.5.A.6
IA5	Stabilizer Drum Washing Operations	LAC 33:III.501.B.5.A.7
IA6	Process Stream/Vent Analyzer	LAC 33:III.501.B.5.A.9

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.	Description	LAC 33:III:Chapter																
		5▲	9	11	13	15	2103	2104*	2111	2113	2115	2122	2153	22	29*	51*	53	56
UNF009	Wastewater Unit	1							1						1	1	1	1
ARE043	Lift Stations													2			1	
ARE044	Formate, Dechlorination Area Source													3			1	
ARE045	Metal Removal Area Source													3			1	
ARE046	Upstream Lift Stations													2			1	
EQT344	Outfall 001 HCl Storage Tank Scrubber																	
EQT345	HCl Tanks (CCS, No. 3 Inc. WA, T-7) Scrubber																	
EQT346	ND Groundwater Collection Tank																	3
EQT347	Vacuum Trucks – Mobile Source																	3
EQT348	South Terminal Rainwater Storage Tank																	3
EQT349	South Terminal Dock Sump Tank																	1
EQT350	South Terminal EDC Pumps Sump Tank																	1
EQT351	C Dock Solvent Rainwater Storage Tank																	1
EQT352	WTU Stormwater Storage Tank																	1
EQT353	South Terminal Flameless Thermal Oxidizer																	3
EQT354	ST Groundwater Collection Tank																	3
EQT356	COS Acid Storage Tank																	1
EQT357	No. 3 Incinerator Weak Acid Storage Tank																	1
EQT358	No. 3 Incinerator 201 Tank																	1
EQT359	No. 1 WTU Stripper Feed Tank														2			1
EQT360	No. 2 WTU Stripper Feed Tank														2			1
EQT361	No. 1 P/T Stripper Feed Tank														2			1
EQT362	No. 2 P/T Stripper Feed Tank														2			1
EQT363	No. 3 P/T Stripper Feed Tank														2			1
EQT364	WTU Backwash Collection Tank														3			1
EQT365	No. 3 WTU Stripper Feed Tank														2			1

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ID No.	Description	LAC 33:III, Chapter																	
		5▲	9	11	13	15	2103	2104*	2111	2113	2115	2122	2153	22	29*	51*	53	56	59
EQT366	No. 2 CSS Feed Tank														2		1		
EQT368	No. 1 CSS Feed Tank														2		1		
EQT369	No. 2 WTU Steam Stripper														2		1		
EQT370	No. 3 WTU Steam Stripper														2		1		
EQT371	No. 1 P/T Steam Stripper														2		1		
EQT372	No. 2 P/T Steam Stripper														2		1		
EQT373	No. 1 OHC Central Steam Stripper														3		2		
EQT374	No. 2 OHC Central Steam Stripper														3		2		
EQT387	No. 1 WTU Settler														3		2		
EQT388	No. 2 WTU Settler														3		2		
EQT389	No. 3 WTU Settler														3		2		
EQT390	No. 1 WTU Steam Stripper														2		1		
EQT391	Chicot Air Stripper														3		1		
EQT543	South Terminal Remediation Tank Carbon Control															3		1	
EQT544	Catalyst Separator														1		1		
FUG015	Derivatives Plant Fugitives														1		1		

* The regulations indicated above are State Only regulations except for LAC 33:III.501.C.6 Limitations that specifically state that the regulation is Federally Enforceable.
▲ All LAC 33:III, Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the 'Specific Requirements' report specifically states that the regulation is State Only.

KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.

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- 2** -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3** -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.	Description	40 CFR 60 NSPS				40 CFR 61				40 CFR 63 NESHAP				40 CFR								
		A	K _a	K _b	V _b	A	F	D	V _a	A	F	D	G	H	E	G	H	N	GGGG	NNNN	64	68
UNF009	Wastewater Unit	1				1				1								1			1	3
ARE043	Lift Stations																					
ARE044	Formate, Dechlorination Area Source																					
ARE045	Metal Removal Area Source																					
ARE046	Upstream Lift Stations																					
EQT344	Outfall 001 HCl Storage Tank Scrubber																					
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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.	Description	40 CFR 60 NSPS				40 CFR 61				40 CFR 63 NESHAP				40 CFR		
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
EQT364	WTU Backwash Collection Tank													3		
EQT365	No. 3 WTU Stripper Feed Tank													1		
EQT366	No. 2 CSS Feed Tank													1		
EQT368	No. 1 CSS Feed Tank													1		
EQT369	No. 2 WTU Steam Stripper													1		
EQT370	No. 3 WTU Steam Stripper													1		
EQT371	No. 1 P/T Steam Stripper													1		
EQT372	No. 2 P/T Steam Stripper													1		
EQT373	No. 1 OHC Central Steam Stripper													1		
EQT374	No. 2 OHC Central Steam Stripper													1		
EQT387	No. 1 WTU Settler													1		
EQT388	No. 2 WTU Settler													1		
EQT389	No. 3 WTU Settler													1		
EQT390	No. 1 WTU Steam Stripper													1		
EQT391	Chicot Air Stripper													3		
EQT543	South Terminal Remediation Tank Carbon Control													1		
EQTS44	Catalyst Separator													1		
FUG015	Derivatives Plant Fugitives													1		

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- 1 -The regulations have applicable requirements that apply to this particular emission source.
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No.	Requirement	Notes
UNF009	40 CFR 82 – Stratospheric Ozone Provisions [40 CFR 82 Subpart F]	Does not apply – All sources subject to the requirements of 40 CFR 82 are covered under the permit for the Complex Support.
ARE043, ARE046	Limiting VOC emissions from Industrial Wastewater [LAC 33:III.2153]	Exempt – Subject to HON Subpart G.
ARE044, ARE045	Limiting VOC emissions from Industrial Wastewater [LAC 33:III.2153]	Does not apply – VOC concentration of the wastewater stream < 1,000 ppmw.
EQT346, EQT354	NESHAP Subpart GGGGG – Site Remediation [40 CFR 63.7881]	Does not apply – The remediation is performed under RCRA corrective action and is not subject to this subpart per 40 CFR 63.7881(b)(3).
EQT347	Comprehensive TAP Emission Control Program [LAC 33:III.5109] Comprehensive TAP Emission Control Program [LAC 33:III.5109]	Does not apply – Emissions from the remediation of a RCRA corrective action is exempt per LAC 33:III.5105.B.6. Does not apply – Not a stationary source.
EQT348, EQT349, EQT350, EQT351, EQT352, EQT391	Limiting VOC emissions from Industrial Wastewater [LAC 33:III.2153]	Does not apply – The water stream is not in direct contact with VOC.
EQT359, EQT360, EQT361, EQT362, EQT363, EQT365, EQT366, EQT368, EQT387, EQT388, EQT389	Storage of Volatile Organic Compounds [LAC 33:III.2103]	Does not apply – Maximum true vapor pressure of VOC < 1.5 psia.
EQT353	Limiting VOC emissions from Industrial Wastewater [LAC 33:III.2153]	Exempt – Subject to HON Subpart G.
LAC 33:III.1503.C. Emission Standards for Sulfur Dioxide [LAC 33:III.1502.A]	NESHAP Subpart GGGGG – Site Remediation [40 CFR 63.7881]	Does not apply – The remediation is performed under RCRA corrective action and is not subject to this subpart per 40 CFR 63.7881(b)(3).
Comprehensive TAP Emission Control Program [LAC 33:III.5109]	Does not apply – SO ₂ emissions < 5 tons/year.	
	Does not apply – Emissions from the remediation of a RCRA corrective action is exempt per LAC 33:III.5105.B.6.	

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LAKE CHARLES COMPLEX – DERIVATIVES PLANT COMMON SOURCES
AGENCY INTEREST NO. 1255
PPG INDUSTRIES, INC.
LAKE CHARLES, CALCASIEU PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No.	Requirement	Notes
EQT364	Storage of Volatile Organic Compounds [LAC 33:III.2103] Limiting VOC emissions from Industrial Wastewater [LAC 33:III.2153]	Does not apply – Not a V O L (< 10% VOL).
	HON Subpart G – NESHAP SOCMi Process Wastewater [40 CFR 63.132]	Does not apply – VOC concentration of the wastewater stream < 1,000 ppmw.
EQT369, EQT370, EQT371, EQT372, EQT390 EQT373, EQT374	Limiting VOC emissions from Industrial Wastewater [LAC 33:III.2153] Waste Gas Disposal [LAC 33:III.2115] - Limiting VOC emissions from Industrial Wastewater [LAC 33:III.2153]	Exempt – Subject to HON Subpart G. Does not apply – Subject to HON Subpart G.
EQT543	NESHAP Subpart GGGGG – Site Remediation [40 CFR 63.7881] Comprehensive TAP Emission Control Program [LAC 33:III.5109]	Does not apply – The remediation is performed under RCRA corrective action and is not subject to this subpart per 40 CFR 63.7881(b)(3). Does not apply – Emissions from the remediation of a RCRA corrective action is exempt per LAC 33:III.5105.B.6.

The above table provides explanation for both the exemption status and non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

INVENTORIES

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER20090031

Permit Number: 2269-V3

Air - Title V Regular Permit Minor Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Derivatives Plant Common Sources						
EOT 0543	544A - South Terminal Remediation Tank Carbon Control					8760 hr/yr
EOT 0544	563 - Catalyst Separator					8760 hr/yr
FUG 0015	349 - Derivatives Plant Fugitives					8760 hr/yr

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
Derivatives Plant Common Sources							
ARE 0044	395 - Formate, Dechlorination Area Source					22.5	
ARE 0045	396 - Metal Removal Area Source					24	
EOT 0344	368 - Outfall 001 HCl Storage Tank Scrubber					2	80
EOT 0345	375 - HCl Tanks (COS, No. 3 Inc. WA, T-7) Scrubber					1.5	110
EOT 0346	380 - ND Groundwater Collection Tank					.5	70
EOT 0347	388 - Vacuum Trucks - Mobile Source					.01	10
EOT 0348	536A - South Terminal Rainwater Storage Tank					.33	80
EOT 0349	536B - South Terminal Dock Sump Tank					.17	2.92
EOT 0350	536C - South Terminal EDC Pumps Sump Tank					.17	2.58
EOT 0351	537 - C Dock Solvent Rainwater Storage Tank					.33	70
EOT 0352	540 - WTU Stormwater Storage Tank					.94	40
EOT 0353	544 - South Terminal Flameless Thermal Oxidizer					.17	12
EOT 0543	544A - South Terminal Remediation Tank Carbon Control					.12	170

Relationships:

ID	Description	Relationship	ID	Description
EOT 0344	368 - Outfall 001 HCl Storage Tank Scrubber	Controls emissions from	EOT 0355	51A-T-61583 - Outfall 001 HCl Storage Tank
EOT 0345	375 - HCl Tanks (COS, No. 3 Inc. WA, T-7) Scrubber	Controls emissions from	EOT 0356	66A-T-10 - COS Acid Storage Tank
EOT 0345	375 - HCl Tanks (COS, No. 3 Inc. WA, T-7) Scrubber	Controls emissions from	EOT 0357	68A-T-15 - No. 3 Incinerator Weak Acid Storage Tank
EOT 0345	375 - HCl Tanks (COS, No. 3 Inc. WA, T-7) Scrubber	Controls emissions from	EOT 0358	20A-T-7 - No. 3 Incinerator 201 Tank
EOT 0353	544 - South Terminal Flameless Thermal Oxidizer	Controls emissions from	EOT 0354	56A-T-63065 - ST Groundwater Collection Tank
EOT 0543	544A - South Terminal Remediation Tank Carbon Control	Controls emissions from	EOT 0354	56A-T-63065 - ST Groundwater Collection Tank

Subject Item Groups:

ID	Group Type	Group Description
UNF 0009	Unit or Facility Wide	- Derivatives Plant Common Sources

INVENTORIES

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER0090031

Permit Number: 2269-V3

Air - Title V Regular Permit Minor Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Derivatives Plant Common Sources						
ARE 0043	386 - Lift Stations				(None Specified)	
ARE 0044	395 - Formate, Dechlorination Area Source	80000 gallons			8760 hr/yr	
ARE 0045	396 - Metal Removal Area Source	305143 gallons			8760 hr/yr	
ARE 0046	501-506 - Upstream Lift Stations				(None Specified)	
EQT 0344	368 - Outfall 001 HCl Storage Tank Scrubber	6900 gallons			8760 hr/yr	
EOT 0345	375 - HCl Tanks (COS, No. 3 Inc WA, T-7) Scrubber	27600 gallons			8760 hr/yr	
EOT 0346	380 - ND Groundwater Collection Tank	8812 gallons			8760 hr/yr	
EOT 0347	388 - Vacuum Trucks - Mobile Source				8760 hr/yr	
EQT 0348	536A - South Terminal Rainwater Storage Tank	13395 gallons			8760 hr/yr	
EQT 0349	536B - South Terminal Dock Sump Tank	2280 gallons			8760 hr/yr	
EOT 0350	536C - South Terminal EDC Pumps Sump Tank	2334 gallons			8760 hr/yr	
EOT 0351	537 - C Dock Solvent Rainwater Storage Tank	13395 gallons			8760 hr/yr	
EQT 0352	540 - WTU Stormwater Storage Tank	2 million gallons			8760 hr/yr	
EQT 0353	544 - South Terminal Flameless Thermal Oxidizer		.04 MM BTU/hr		8760 hr/yr	
EQT 0354	56A-T-63065 - ST Groundwater Collection Tank	5568 gallons			8760 hr/yr	
EOT 0355	51A-T-61583 - Outfall 001 HCl Storage Tank	6900 gallons			8760 hr/yr	
EOT 0356	66A-T-10 - COS Acid Storage Tank	7000 gallons			8760 hr/yr	
EQT 0357	68A-T-15 - No. 3 Incinerator Weak Acid Storage Tank	19500 gallons			8760 hr/yr	
EQT 0358	20A-T-7 - No. 3 Incinerator 2011 Tank	800 gallons			8760 hr/yr	
EOT 0359	57A-T-201 - No. 1 WTU Stripper Feed Tank	100000 gallons			8760 hr/yr	
EQT 0360	57A-T-202 - No. 2 WTU Stripper Feed Tank	100000 gallons			8760 hr/yr	
EQT 0361	57G-T-101 - No. 1 P/T Stripper Feed Tank	17000 gallons			8760 hr/yr	
EOT 0362	57G-T-201 - No. 2 P/T Stripper Feed Tank	17000 gallons			8760 hr/yr	
EOT 0363	57G-T-446 - No. 3 P/T Stripper Feed Tank	18800 gallons			8760 hr/yr	
EOT 0364	57A-T-412 - WTU Backwash Collection Tank	63000 gallons			8760 hr/yr	
EOT 0365	57A-T-425 - No. 3 WTU Stripper Feed Tank	47000 gallons			8760 hr/yr	
EOT 0366	57D-T-3 - No. 2 CSS Feed Tank	16000 gallons			8760 hr/yr	
EOT 0368	57A-T-62789 - No. 1 CSS Feed Tank	21000 gallons			8760 hr/yr	
EOT 0369	57A-C-472 - No. 2 WTU Steam Stripper				8760 hr/yr	
EOT 0370	57A-C-405-B - No. 3 WTU Steam Stripper				8760 hr/yr	
EOT 0371	57G-C-462-A - No. 1 P/T Steam Stripper				8760 hr/yr	
EOT 0372	57G-C-462-B - No. 2 P/T Steam Stripper				8760 hr/yr	
EOT 0373	57D-C-464-A - No. 1 OHC Central Steam Stripper				8760 hr/yr	
EOT 0374	57D-C-464-B - No. 2 OHC Central Steam Stripper				8760 hr/yr	
EOT 0387	57A-T-203 - No. 1 WTU Settler	100000 gallons			8760 hr/yr	
EOT 0388	57A-T-204 - No. 2 WTU Settler	100000 gallons			8760 hr/yr	
EOT 0389	57A-T-424 - No. 3 WTU Settler	300000 gallons			8760 hr/yr	
EOT 0390	57A-C-1 - No. 1 WTU Steam Stripper				8760 hr/yr	
EOT 0391	56H-C-4003 - Chicot Air Stripper				8760 hr/yr	

INVENTORIES**AJ ID: 1255 - PPG Industries Inc - Lake Charles Complex****Activity Number: PER20090031****Permit Number: 2269-V3****Air - Title V Regular Permit Minor Mod****Group Membership:**

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multipier	Units Of Measure
0620	0620 Halogenated Hydrocarbons (Rated Capacity)	1	MM lbs/yr

SIC Codes:

2812	Alkalies and chlorine	AJ 1255
2819	Industrial inorganic chemicals, nec	AJ 1255
2869	Industrial organic chemicals, nec	AJ 1255

EMISSION RATES FOR CRITERIA POLLUTANTS

AID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER20090031

Permit Number: 2269-V3

Air - Title V Regular Permit Minor Mod

Subject Item	CO			NOx			PM10			SO2			VOC			
	Avg lb/hr	Max lb/hr	Tons/Year													
Derivatives Plant Common Sources																
ARE 0043 386										0.11	0.11	0.44				
ARE 0044 395										<0.01	0.01	0.01				
ARE 0045 396										0.04	0.15	0.17				
ARE 0046 501-506										2.00	2.40	8.76				
EOT 0346 380										0.17	0.20	0.75				
EOT 0347 388										4.72	102.55	20.67				
EOT 0348 536A										<0.01	<0.01	<0.01				
EOT 0349 536B										<0.01	<0.01	<0.01				
EOT 0350 536C										<0.01	<0.01	<0.01				
EOT 0351 537										0.02	0.03	0.10				
EOT 0352 540										0.01	0.01	0.02				
EOT 0353 544	<0.01	<0.01	0.02	0.02	0.04	0.09				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
EOT 0543 544A											0.02	0.03	0.07			
EOT 0544 563											0.85	47.16	3.73			
FUG 0075 349	0.01		0.03				<0.01	0.02	<0.01			7.81		34.21		

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER20090031

Permit Number: 2269-V3

Air - Title V Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
ARE 0043 386	1,1,1-Trichloroethane	0.02	0.02	0.07
	1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.01
	1,1,2-Trichloroethane	0.004	0.005	0.02
	1,1-Dichloroethane	0.003	0.003	0.01
	1,2-Dichloroethane	0.040	0.049	0.177
	Biphenyl	0.001	0.001	<0.01
	Carbon tetrachloride	0.005	0.01	0.02
	Chloroethane	0.02	0.02	0.07
	Chloroform	0.001	0.001	<0.01
	Hexachlorobutadiene	0.001	0.001	0.003
	Hexachloroethane	0.001	0.001	<0.01
	Hydrochloric acid	0.003	0.004	0.01
	Tetrachloroethylene	0.01	0.01	0.04
	Trichloroethylene	0.01	0.01	0.02
ARE 0044 395	Vinyl chloride	0.001	0.001	<0.01
	Vinyldene chloride	0.01	0.01	0.03
	1,1,1-Trichloroethane	<0.001	<0.001	<0.01
	1,2-Dichloroethane	<0.001	0.001	0.002
	Benzene	<0.001	0.001	<0.01
	Chloroform	<0.001	<0.001	<0.01
	Dichloromethane	<0.001	0.001	<0.01
	Tetrachloroethylene	<0.001	0.001	<0.01
ARE 0045 396	Trichloroethylene	<0.001	<0.001	<0.01
	Vinyl chloride	<0.001	0.002	<0.01
	1,1,1-Trichloroethane	<0.001	0.001	<0.01
	1,1,2,2-Tetrachloroethane	0.002	0.01	0.01
	1,1,2-Trichloroethane	0.002	0.01	0.01
	1,1-Dichloroethane	<0.001	0.001	<0.01
	1,2-Dichloroethane	0.007	0.029	0.030
	Chloroethane	0.01	0.03	0.02
	Chloroform	0.01	0.02	0.03
	Methyl chloride	0.001	0.002	<0.01
	Tetrachloroethylene	0.003	0.01	0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER20090031

Permit Number: 2269-V3

Air - Title V Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
ARE 0045 396	Trichloroethylene	0.01	0.02	0.02
	Vinyl chloride	<0.001	<0.001	<0.01
	Vinylidene chloride	<0.001	0.001	<0.01
ARE 0046 501-506	1,1,1-Trichloroethane	0.27	0.33	1.19
	1,1,2,2-Tetrachloroethane	0.01	0.01	0.05
	1,1,2-Trichloroethane	0.10	0.12	0.43
	1,1-Dichloroethane	0.04	0.05	0.18
	1,2-Dichloroethane	0.460	0.552	2.015
	Benzene	<0.001	<0.001	<0.01
	Biphenyl	0.02	0.03	0.10
	Carbon tetrachloride	0.22	0.27	0.98
	Chloroethane	0.05	0.06	0.21
	Chloroform	0.04	0.04	0.16
	Dichloromethane	<0.001	<0.001	<0.001
	Hexachlorobutadiene	0.024	0.028	0.104
	Hexachloroethane	0.03	0.03	0.11
EQT 0344 368	Hydrochloric acid	0.11	0.13	0.46
	Tetrachloroethylene	0.36	0.43	1.57
	Trichloroethylene	0.20	0.24	0.88
	Vinyl chloride	0.003	0.004	0.01
	Vinylidene chloride	0.26	0.31	1.14
	Hydrochloric acid	<0.001	<0.001	<0.01
	Hydrochloric acid	<0.001	<0.001	<0.01
	1,1,1-Trichloroethane	0.05	0.06	0.20
	1,1,2,2-Tetrachloroethane	0.003	0.004	0.01
	1,1-Dichloroethane	<0.001	<0.001	<0.01
EQT 0346 380	1,2-Dichloroethane	0.045	0.053	0.195
	Tetrachloroethylene	0.002	0.002	0.01
	Trichloroethylene	0.03	0.03	0.12
	Vinyl chloride	<0.001	<0.001	<0.01
	Vinylidene chloride	0.005	0.01	0.02
	1,1,1-Trichloroethane	0.36	3.15	1.58
	1,1,2,2-Tetrachloroethane	0.09	1.34	0.40
EQT 0347 388				

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER20090031

Permit Number: 2269-V3

Air - Title V Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0347 388	1,1,2-Trichloroethane	0.23	1.72	1.00
	1,1-Dichloroethane	0.29	1.05	1.25
	1,2-Dichloroethane	0.850	17.745	3.724
	Carbon tetrachloride	0.08	3.00	0.37
	Chloroethane	0.33	1.27	1.43
	Chloroform	0.19	1.12	0.85
	Tetrachloroethylene	0.65	41.56	2.85
	Trichloroethylene	0.83	19.46	3.62
	Vinyl chloride	0.03	0.23	0.11
EQT 0348 536A	Vinylidene chloride	0.23	3.67	0.99
	1,2-Dichloroethane	<0.001	0.003	0.002
EQT 0349 536B	1,2-Dichloroethane	<0.001	0.002	<0.001
EQT 0350 536C	1,2-Dichloroethane	<0.001	0.001	<0.001
EQT 0351 537	1,1,1-Trichloroethane	0.04	0.04	0.17
	Dichloromethane	<0.001	<0.001	<0.01
	Tetrachloroethylene	0.05	0.05	0.20
	Trichloroethylene	0.02	0.03	0.10
EQT 0352 540	1,1,1-Trichloroethane	0.002	0.002	0.01
	1,1,2-Trichloroethane	<0.001	<0.001	<0.01
	1,1-Dichloroethane	<0.001	<0.001	<0.01
	1,2-Dichloroethane	<0.001	<0.001	0.002
	Carbon tetrachloride	0.002	0.003	0.01
	Chloroform	<0.001	<0.001	<0.01
	Tetrachloroethylene	0.01	0.01	0.04
	Trichloroethylene	0.002	0.002	0.01
EQT 0353 544	1,1,1-Trichloroethane	<0.001	<0.001	<0.01
	1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.01
	1,1,2-Trichloroethane	<0.001	<0.001	<0.01
	1,1-Dichloroethane	<0.001	<0.001	<0.01
	1,2,4-Trichlorobenzene	<0.001	<0.001	<0.01
	1,2-Dichloroethane	<0.001	<0.001	<0.001
	1,3-Butadiene	<0.001	<0.001	<0.001
	1,4-Dichlorobenzene	<0.001	<0.001	<0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER20090031

Permit Number: 2269-V3

Air - Title V Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0353 544	2,2'-dichlorodiethyl ether	<0.001	<0.001	<0.01
	Allyl chloride	<0.001	<0.001	<0.001
	Benzene	<0.001	<0.001	<0.01
	Biphenyl	<0.001	<0.001	<0.01
	Carbon disulfide	<0.001	<0.001	<0.01
	Carbon tetrachloride	<0.001	<0.001	<0.01
	Chlorine	0.01	0.02	0.04
	Chlorobenzene	<0.001	<0.001	<0.001
	Chloroethane	<0.001	<0.001	<0.01
	Chloroform	<0.001	<0.001	<0.001
	Chloroprene	<0.001	<0.001	<0.01
	Dichloromethane	<0.001	<0.001	<0.01
	Formaldehyde	<0.01	<0.01	<0.01
	Hexachlorobutadiene	<0.001	<0.001	<0.001
	Hexachloroethane	<0.001	<0.001	<0.01
	Hydrochloric acid	0.01	0.02	0.04
	Tetrachloroethylene	<0.001	<0.001	<0.01
	Toluene	<0.001	<0.001	<0.01
	Trichloroethylene	<0.001	<0.001	<0.01
	Vinyl chloride	<0.001	<0.001	<0.01
	Vinylidene chloride	<0.001	<0.001	<0.01
EQT 0543 544A	1,1,1-Trichloroethane	0.001	0.002	0.01
	1,1,2,2-Tetrachloroethane	0.001	0.001	<0.01
	1,1,2-Trichloroethane	0.001	0.001	<0.01
	1,1-Dichloroethane	<0.001	<0.001	<0.01
	1,2,4-Trichlorobenzene	<0.001	<0.001	<0.01
	1,2-Dichloroethane	<0.001	<0.001	0.001
	1,3-Butadiene	<0.001	<0.001	<0.001
	1,4-Dichlorobenzene	<0.001	<0.001	<0.01
	2,2'-dichlorodiethyl ether	<0.001	<0.001	<0.01
	Allyl chloride	<0.001	<0.001	<0.001
	Benzene	<0.001	<0.001	<0.01
	Biphenyl	<0.001	<0.001	<0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER20090031

Permit Number: 2269-V3

Air - Title V Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
FUG 0015 349	Carbon tetrachloride	0.01		0.06
	Chlorine	0.06		0.25
	Chloroethane	0.16		0.71
	Chloroform	0.03		0.13
	Dichloromethane	0.001		<0.01
	Hexachlorobutadiene	0.208		0.909
	Hexachloroethane	0.21		0.94
	Hydrochloric acid	0.54		2.36
	Tetrachloroethylene	0.65		2.84
	Toluene	0.01		0.02
	Trichloroethylene	0.30		1.32
	Vinyl chloride	0.71		3.12
UNF 0009	Vinylidene chloride	0.17		0.76
	1,1,1-Trichloroethane			4.14
	1,1,2,2-Tetrachloroethane			2.98
	1,1,2-Trichloroethane			6.93
	1,1-Dichloroethane			3.43
	1,2,4-Trichlorobenzene			0.11
	1,2-Dibromo-3-chloropropane			0.01
	1,2-Dichloroethane			13.130
	1,2-Epoxybutane			0.05
	1,3-Butadiene			<0.001
	1,4-Dichlorobenzene			0.03
	1,4-Dioxane			0.01
	2,2'-dichlorodiethyl ether			<0.01
	2-nitro-Propane			0.16
	Allyl chloride			<0.001
	Ammonia			1.42
	Benzene			0.01
	Biphenyl			0.10
	Carbon disulfide			<0.01
	Carbon tetrachloride			1.43
	Chlorine			0.29

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER20090031

Permit Number: 2269-V3

Air - Title V Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0543 544A	Carbon disulfide	<0.001	<0.001	<0.01
	Carbon tetrachloride	<0.001	<0.001	<0.01
	Chlorobenzene	<0.001	<0.001	<0.001
	Chloroethane	<0.001	<0.001	<0.01
	Chloroprene	<0.001	<0.001	<0.01
	Dichloromethane	<0.001	<0.001	<0.01
	Hexachlorobutadiene	0.001	0.002	0.006
	Hexachloroethane	<0.001	<0.001	<0.01
	Tetrachloroethylene	0.001	0.002	0.01
	Toluene	<0.001	<0.001	<0.01
	Trichloroethylene	0.002	0.003	0.01
	Vinyl chloride	0.001	0.002	0.01
	Vinyldene chloride	0.001	0.001	<0.01
EQT 0544 563	1,1,2,2-Tetrachloroethane	0.02	1.35	0.11
	1,1,2-Trichloroethane	0.001	0.03	<0.01
	1,2,4-Trichlorobenzene	0.02	1.35	0.11
	1,2-Dibromo-3-chloropropane	0.002	0.10	0.01
	1,2-Dichloroethane	0.137	7.620	0.602
	1,4-Dichlorobenzene	0.01	0.37	0.03
	Chloroethane	<0.001	0.002	<0.01
	Hexachlorobutadiene	0.117	6.488	0.513
	Tetrachloroethylene	0.30	16.74	1.32
	Trichloroethylene	0.20	11.29	0.89
FUG 0015 349	1,1,1-Trichloroethane	0.21		0.91
	1,1,2,2-Tetrachloroethane	0.55		2.39
	1,1,2-Trichloroethane	1.25		5.47
	1,1-Dichloroethane	0.45		1.98
	1,2-Dichloroethane	1.457		6.380
	1,2-Epoxybutane	0.01		0.05
	1,4-Dioxane	0.001		0.01
	2-nitro-Propane	0.04		0.16
	Ammonia	0.32		1.42
	Biphenyl	<0.001		<0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER20090031

Permit Number: 2269-V3

Air - Title V Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
UNF 0009	Chlorobenzene			<0.001
	Chloroethane			2.45
	Chloroform			1.17
	Chloroprene			<0.01
	Dichloromethane			0.01
	Hexachlorobutadiene			1.534
	Hexachloroethane			1.05
	Hydrochloric acid			2.87
	Methyl chloride			<0.01
	Tetrachloroethylene			8.88
	Toluene			0.02
	Trichloroethylene			7.00
	Vinyl chloride			3.26
	Vinylidene chloride			2.94

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER20090031

Permit Number: 2269-V3

Air - Title V Regular Permit Minor Mod

ARE 0043 386 - Lift Stations

- 1 [40 CFR 63.132(a)(1)] Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(a)(1)(i) or (a)(1)(ii), and (a)(1)(iii). Subpart G. [40 CFR 63.132(a)(1)]
- 2 [40 CFR 63.147] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.
- 3 [LAC 33:III.501] This source includes Lift Station No. 7 WTU (386A), Lift Station No. 2 WTU (386C), CSS Sump (386D), Formate Sump (386E), Dechlor Sump (386F), BAT Sump WTU (386G), Lift Station No. 1 WTU (386H), Lift Station No. 6 Per/Tri (386I), BAT Per/Tri Sump (386J), Lift Station No. 10 PHH (386M), Impounding Basin PHH (386N), BAT-Rain PHH (386O), BAT Organic PHH (386P), E. Process Area Sump Tank PHH (386Q), BAT TE-2 Sump (386R), Lift Station No. 9 TE-2 (386S), BAT Stormwater Tank TE-2 (386U), Lift Station No. 4 Shipping (386V), Lift Station No. 1 EC/HCl (386W), Lift Station No. 5 EDC (386X), Lift Station No. 3 VDCM (386Y), 301 Stormwater Sump WTU (386Z), Classifier Sump (386AA), Air Stripper Sump (386FF), RLST Lift Station (386HH), and Main Lab Wastewater Sump (386GG).
- 4 [LAC 33:III.5109.A.2] Compliance with 40 CFR 63, Subpart G constitutes compliance with MACT.

ARE 0044 395 - Formate, Dechlorination Area Source

- This source includes MR 1st Stage Dechlorination Tank No. 1 W. (57G-T-1), MR 2nd Stage Dechlorination Tank No. 2 E. (57G-T-2), MR 1st Stage Dechlorination Tank No. 3 W. (57G-T-3), MR 2nd Stage Dechlorination Tank No. 2 E. (57G-T-4), No. 1 Retention Tank (66A-T-11), No. 2 Retention Tank (66A-T-12), and No. 3 Retention Tank (66A-T-13). Treated wastewater streams. No further control is required.

ARE 0045 396 - Metal Removal Area Source

- This source include No. 1 Equalization Tank South (57G-T-8), No. 2 Equalization Tank North (57G-T-9), and MR Sludge Thickener (57G-T-21). Treated wastewater streams. No further control is required.

ARE 0046 501-506 - Upstream Lift Stations

- 9 [40 CFR 63.147] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.
- 10 [LAC 33:III.501] This source includes Upstream WTU Lift Station No. 7 (501A), Upstream WTU CSS Sump (501D), Upstream WTU Lift Station No. 11 North (501H), Upstream WTU Lift Station No. 11 North (501I), Upstream WTU Lift Station No. 6 (502A), Upstream P/T BAT Sump (502B), Upstream PHH Impounding Basin (503B), Clarifier Sump (501J), Upstream P/T Lift Station No. 6 (502A), Upstream P/T BAT Sump (502B), Upstream PHH E. Process Sump (503D), Upstream PHH BAT Organic (503E), Upstream PHH E. Process Sump (503D), Upstream PHH E. Process Sump (503E), Upstream TE-2 BAT Sump (504A), Upstream TE-2 Lift Station No. 9 (504B), Upstream Shipping Lift Station No. 4 (505), Upstream EC/HCl Lift Station No. 1 (506A), Upstream EDC Lift Station No. 5 (506B), and Upstream VDCM Lift Station No. 3 (506C). Compliance with 40 CFR 63, Subpart G constitutes compliance with MACT.

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex
 Activity Number: PER20090031
 Permit Number: 2269-V3
 Air - Title V Regular Permit Minor Mod

EQT 0344 368 - Outfall 001 HCl Storage Tank Scrubber

- 12 [LAC 33:II.501.C.6] Records of daily flow rate check and corrective actions taken shall be maintained onsite for at least two years and be available for inspection by DEQ. State-only.
- 13 [LAC 33:II.501.C.6] Flow rate monitored by flow rate monitoring device daily when the HCl tank is in operation. State-only.
Which Months: All Year Statistical Basis: None specified
- 14 [LAC 33:II.501.C.6] Flow rate ≥ 7 gallons/min. State-only.
Which Months: All Year Statistical Basis: None specified
- 15 [LAC 33:II.501.C.6] Shall take corrective action if the flow rate is low. State-only.
Class III TAP - MACT is not required.
- 16 [LAC 33:II.5109.A]

EQT 0345 375 - HCl Tanks (COS, No. 3 Inc. WA, T-7) Scrubber

- 17 [LAC 33:II.501.C.6] Records of daily flow rate check and corrective actions taken shall be maintained onsite for at least two years and be available for inspection by DEQ. State-only.
- 18 [LAC 33:II.501.C.6] Flow rate monitored by flow rate monitoring device daily when the HCl tank is in operation. State-only.
Which Months: All Year Statistical Basis: None specified
- 19 [LAC 33:II.501.C.6] Shall take corrective action if the flow rate is low. State-only.
Flow rate ≥ 1.8 gallons/min. State-only.
- 20 [LAC 33:II.501.C.6] Which Months: All Year Statistical Basis: None specified
- 21 [LAC 33:II.5109.A] Class III TAP - MACT is not required.

EQT 0348 536A - South Terminal Rainwater Storage Tank

- 22 [LAC 33:II.5109.A] Stormwater with extremely low TAP concentration. No control is required.

EQT 0349 536B - South Terminal Dock Sump Tank

- 23 [LAC 33:II.5109.A] Stormwater with extremely low TAP concentration. No control is required.

EQT 0350 536C - South Terminal EDC Pumps Sump Tank

- 24 [LAC 33:II.5109.A] Stormwater with extremely low TAP concentration. No control is required.

EQT 0351 537 - C Dock Solvent Rainwater Storage Tank

- 25 [LAC 33:II.5109.A] Stormwater with extremely low TAP concentration. No control is required.

EQT 0352 540 - WTU Stormwater Storage Tank

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex
 Activity Number: PER20090031
 Permit Number: 2269-V3
 Air - Title V Regular Permit Minor Mod

EQT 0352 540 - WTU Stormwater Storage Tank

26 [LAC 33:III.5109.A]

Stormwater with extremely low TAP concentration. No control is required.

EQT 0353 544 - South Terminal Flameless Thermal Oxidizer

27 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, changing of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

28 [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: Six-minute average

EQT 0355 51A-T-61583 - Outfall 001 HCl Storage Tank

29 [LAC 33:III.5109.A]

Class III TAP - MACT is not required.

EQT 0356 66A-T-10 - COS Acid Storage Tank

30 [LAC 33:III.5109.A]

Class III TAP - MACT is not required.

EQT 0357 68A-T-15 - No. 3 Incinerator Weak Acid Storage Tank

31 [LAC 33:III.5109.A]

Class III TAP - MACT is not required.

EQT 0358 20A-T-7 - No. 3 Incinerator 201 Tank

32 [LAC 33:III.5109.A]

Class III TAP - MACT is not required.

EQT 0359 57A-T-201 - No. 1 WTU Stripper Feed Tank

33 [40 CFR 63.132(a)(3)]

Comply with the applicable recordkeeping and reporting requirements specified in 40 CFR 63.146(b)(1) and 147(b)(8). Subpart G. [40 CFR 63.132(a)(3)]
 Compliance with 40 CFR 63, Subpart G constitutes compliance with MACT.

34 [LAC 33:III.5109.A.2]

35 [40 CFR 63.132(a)(3)]

Comply with the applicable recordkeeping and reporting requirements specified in 40 CFR 63.146(b)(1) and 147(b)(8). Subpart G. [40 CFR 63.132(a)(3)]

SPECIFIC REQUIREMENTS

Air ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER20090031

Permit Number: 2269-V3

Air - Title V Regular Permit Minor Mod

EQT 0360 57A-T-202 - No. 2 WTU Stripper Feed Tank

Compliance with 40 CFR 63, Subpart G constitutes compliance with MACT.

EQT 0361 57G-T-101 - No. 1 P/T Stripper Feed Tank

- 36 [LAC 33:III.5109.A.2] Compliance with 40 CFR 63, Subpart G constitutes compliance with MACT.
- 37 [40 CFR 63.113(a)(2)] Organic HAP $\geq 98\%$ reduction by weight, or ≤ 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c).
Subpart G. [40 CFR 63.113(a)(2)]
Which Months: All Year Statistical Basis: None specified
Halogenated vent streams: Hydrogen halides and halogens $\geq 95\%$ reduction, or reduce the outlet mass of total hydrogen halides and halogens < 0.45 kg/hr, whichever is less stringent, using a halogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(ii)]
Which Months: All Year Statistical Basis: None specified
Halogenated vent streams: Convey vent stream exiting a combustion device to a halogen reduction device, such as a scrubber, before being discharged to the atmosphere. Subpart G. [40 CFR 63.113(c)(1)]
Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
Compliance with 40 CFR 63, Subpart G constitutes compliance with MACT.

EQT 0362 57G-T-201 - No. 2 P/T Stripper Feed Tank

- Organic HAP $\geq 98\%$ reduction by weight, or ≤ 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c).
Subpart G. [40 CFR 63.113(a)(2)]
Which Months: All Year Statistical Basis: None specified
Halogenated vent streams: Hydrogen halides and halogens $\geq 95\%$ reduction, or reduce the outlet mass of total hydrogen halides and halogens < 0.45 kg/hr, whichever is less stringent, using a halogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(ii)]
Which Months: All Year Statistical Basis: None specified
Halogenated vent streams: Convey vent stream exiting a combustion device to a halogen reduction device, such as a scrubber, before being discharged to the atmosphere. Subpart G. [40 CFR 63.113(c)(1)]
Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
Compliance with 40 CFR 63, Subpart G constitutes compliance with MACT.

EQT 0363 57G-T-446 - No. 3 P/T Stripper Feed Tank

- Organic HAP $\geq 98\%$ reduction by weight, or ≤ 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c).
Subpart G. [40 CFR 63.113(a)(2)]
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex
 Activity Number: PER20090031
 Permit Number: 2269-V3
 Air - Title V Regular Permit Minor Mod

EQT 0363 57G-T-446 - No. 3 P/T Stripper Feed Tank

- 48 [40 CFR 63.113(c)(1)(ii)] Halogenated vent streams: Hydrogen halides and halogens $\geq 95\%$ reduction, or reduce the outlet mass of total hydrogen halides and halogens $< 0.45 \text{ kg/hr}$, whichever is less stringent, using a halogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(ii)]
 Which Months: All Year Statistical Basis: None specified
 Halogenated vent streams: Convey vent stream exiting a combustion device to a halogen reduction device, such as a scrubber, before being discharged to the atmosphere. Subpart G. [40 CFR 63.113(c)(1)(ii)]
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
 Compliance with 40 CFR 63. Subpart G constitutes compliance with MACT.
- 51 [LAC 33:III.5|09.A.2]

EQT 0364 57A-T-412 - WTU Backwash Collection Tank

- 52 [LAC 33:III.5|09.A] Emissions are controlled by the No. 1 and No. 2 Incinerators (345), No. 3 HAF (346), or No. 4 Thermal Oxidizer (347) covered in Permit 2040-V0, issued February 21, 2005, or any subsequent revisions thereto - Determined as MACT.

EQT 0365 57A-T-425 - No. 3 WTU Stripper Feed Tank

- 53 [40 CFR 63.1132(a)(3)] Comply with the applicable recordkeeping and reporting requirements specified in 40 CFR 63.146(b)(1) and 147(b)(8). Subpart G. [40 CFR 63.1132(a)(3)]
 Compliance with 40 CFR 63. Subpart G constitutes compliance with MACT.
- 54 [LAC 33:III.5|09.A.2]

EQT 0366 57D-T-3 - No. 2 CSS Feed Tank

- 55 [40 CFR 63.113(a)(2)] Organic HAP $\geq 98\%$ reduction by weight, or $\leq 20 \text{ ppmv}$, whichever is less stringent, as determined using the methods in 40 CFR 63.116(e). Subpart G. [40 CFR 63.113(a)(2)]
 Which Months: All Year Statistical Basis: None specified
 Halogenated vent streams: Hydrogen halides and halogens $\geq 95\%$ reduction, or reduce the outlet mass of total hydrogen halides and halogens $< 0.45 \text{ kg/hr}$, whichever is less stringent, using a halogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(ii)]
 Which Months: All Year Statistical Basis: None specified
 Halogenated vent streams: Convey vent stream exiting a combustion device to a halogen reduction device, such as a scrubber, before being discharged to the atmosphere. Subpart G. [40 CFR 63.113(c)(1)(ii)]
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
 Compliance with 40 CFR 63. Subpart G constitutes compliance with MACT.
- 57 [40 CFR 63.113(c)(1)]
 58 [40 CFR 63.117(a)]
 59 [LAC 33:III.5|09.A.2]

EQT 0368 57A-T-62789 - No. 1 CSS Feed Tank

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex
 Activity Number: PER20090031
 Permit Number: 2269-V3
 Air - Title V Regular Permit Minor Mod

EQT 0368 57A-T-62789 - No. 1 CSS Feed Tank

- 60 [40 CFR 63.113(a)(2)] Organic HAP \geq 98 % reduction by weight, or \leq 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c).
 Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified **g**
 Halogenated vent streams: Hydrogen halides and halogens \geq 95 % reduction, or reduce the outlet mass of total hydrogen halides and halogens < 0.45 kg/hr, whichever is less stringent, using a halogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified **g**
 Halogenated vent streams: Convey vent stream exiting a combustion device to a halogen reduction device, such as a scrubber, before being discharged to the atmosphere. Subpart G. [40 CFR 63.113(c)(1)]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- Compliance with 40 CFR 63, Subpart G constitutes compliance with MACT.

EQT 0369 57A-C-472 - No. 2 WTU Steam Stripper

- 65 [40 CFR 63.132(a)(3)] Comply with the applicable recordkeeping and reporting requirements specified in 40 CFR 63.146(b)(1) and 147(b)(8). Subpart G. [40 CFR 63.132(a)(3)]
- 66 [LAC 33:III.5109.A.2] Compliance with 40 CFR 63, Subpart G constitutes compliance with MACT.

EQT 0370 57A-C-405-B - No. 3 WTU Steam Stripper

- 67 [40 CFR 63.132(a)(3)] Comply with the applicable recordkeeping and reporting requirements specified in 40 CFR 63.146(b)(1) and 147(b)(8). Subpart G. [40 CFR 63.132(a)(3)]
- 68 [LAC 33:III.5109.A.2] Compliance with 40 CFR 63, Subpart G constitutes compliance with MACT.

EQT 0371 57G-C-462-A - No. 1 P/T Steam Stripper

- 69 [40 CFR 63.113(a)(2)] Organic HAP \geq 98 % reduction by weight, or \leq 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c).
 Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified **g**
 Halogenated vent streams: Hydrogen halides and halogens \geq 95 % reduction, or reduce the outlet mass of total hydrogen halides and halogens < 0.45 kg/hr, whichever is less stringent, using a halogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified **g**
 Halogenated vent streams: Convey vent stream exiting a combustion device to a halogen reduction device, such as a scrubber, before being discharged to the atmosphere. Subpart G. [40 CFR 63.113(c)(1)]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- Compliance with 40 CFR 63, Subpart G constitutes compliance with MACT.

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex
 Activity Number: PER20090031
 Permit Number: 2269-V3
 Air - Title V Regular Permit Minor Mod

EQT 0372 57G-C-462-B - No. 2 P/T Steam Stripper

- Organic HAP \geq 98 % reduction by weight, or \leq 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c).
- Subpart G. [40 CFR 63.113(a)(2)]
 Which Months: All Year Statistical Basis: None specified
 Halogenated vent streams: Hydrogen halides and halogens \geq 95 % reduction, or reduce the outlet mass of total hydrogen halides and halogens < 0.45 kg/hr, whichever is less stringent, using a halogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(ii)]
 Which Months: All Year Statistical Basis: None specified
 Halogenated vent streams: Convey vent stream exiting a combustion device to a halogen reduction device, such as a scrubber, before being discharged to the atmosphere. Subpart G. [40 CFR 63.113(c)(1)]
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
 Compliance with 40 CFR 63, Subpart G constitutes compliance with MACT.

EQT 0373 57D-C-464-A - No. 1 OHC Central Steam Stripper

- Organic HAP \geq 98 % reduction by weight, or \leq 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c).
- Subpart G. [40 CFR 63.113(a)(2)]
 Which Months: All Year Statistical Basis: None specified
 Halogenated vent streams: Hydrogen halides and halogens \geq 95 % reduction, or reduce the outlet mass of total hydrogen halides and halogens < 0.45 kg/hr, whichever is less stringent, using a halogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(ii)]
 Which Months: All Year Statistical Basis: None specified
 Halogenated vent streams: Convey vent stream exiting a combustion device to a halogen reduction device, such as a scrubber, before being discharged to the atmosphere. Subpart G. [40 CFR 63.113(c)(1)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
 Compliance with 40 CFR 63, Subpart G constitutes compliance with MACT.

EQT 0374 57D-C-464-B - No. 2 OHC Central Steam Stripper

- Organic HAP \geq 98 % reduction by weight, or \leq 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c).
- Subpart G. [40 CFR 63.113(a)(2)]
 Which Months: All Year Statistical Basis: None specified
 Halogenated vent streams: Hydrogen halides and halogens \geq 95 % reduction, or reduce the outlet mass of total hydrogen halides and halogens < 0.45 kg/hr, whichever is less stringent, using a halogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(ii)]
 Which Months: All Year Statistical Basis: None specified
 Halogenated vent streams: Convey vent stream exiting a combustion device to a halogen reduction device, such as a scrubber, before being discharged to the atmosphere. Subpart G. [40 CFR 63.113(c)(1)]

SPECIFIC REQUIREMENTS**AI ID:** 1255 - PPG Industries Inc - Lake Charles Complex**Activity Number:** PER20090031**Permit Number:** 2269-V3**Air - Title V Regular Permit Minor Mod****EQT 0374 57D-C-464-B - No. 2 OHC Central Steam Stripper**

- 87 [40 CFR 63.117(a)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
 88 [LAC 33:III.5109.A.2] Compliance with 40 CFR 63, Subpart G constitutes compliance with MACT.

EQT 0387 57A-T-203 - No. 1 WTU Settler

- 89 [40 CFR 63.132(a)(3)] Comply with the applicable recordkeeping and reporting requirements specified in 40 CFR 63.146(b)(1). Subpart G. [40 CFR 63.132(a)(3)]
 90 [LAC 33:III.5109.A.2] Compliance with 40 CFR 63, Subpart G constitutes compliance with MACT.

EQT 0388 57A-T-204 - No. 2 WTU Settler

- 91 [40 CFR 63.132(a)(3)] Comply with the applicable recordkeeping and reporting requirements specified in 40 CFR 63.146(b)(1). Subpart G. [40 CFR 63.132(a)(3)]
 92 [LAC 33:III.5109.A.2] Compliance with 40 CFR 63, Subpart G constitutes compliance with MACT.

EQT 0389 57A-T-424 - No. 3 WTU Settler

- 93 [40 CFR 63.132(a)(3)] Comply with the applicable recordkeeping and reporting requirements specified in 40 CFR 63.146(b)(1). Subpart G. [40 CFR 63.132(a)(3)]
 94 [LAC 33:III.5109.A.2] Compliance with 40 CFR 63, Subpart G constitutes compliance with MACT.

EQT 0390 57A-C-1 - No. 1 WTU Steam Stripper

- 95 [40 CFR 63.132(a)(3)] Comply with the applicable recordkeeping and reporting requirements specified in 40 CFR 63.146(b)(1). Subpart G. [40 CFR 63.132(a)(3)]
 96 [LAC 33:III.5109.A.2] Compliance with 40 CFR 63, Subpart G constitutes compliance with MACT.

EQT 0391 56H-C-4003 - Chicot Air Stripper

- 97 [LAC 33:III.501.C.6] Emissions are routed to the No. 3 HAF (346) covered in Permit 2040-V0, issued February 21, 2005, or any subsequent revisions thereto.
 98 [LAC 33:III.5109.A] Stormwater with extremely low TAP concentration. No control is required.

EQT 0544 563 - Catalyst Separator

- 99 [LAC 33:III.1311.B] Total suspended particulate \leq 6.52 lb/hr. The rate of emission shall be the total of all emission points from the source.
 Which Months: All Year Statistical Basis: None specified
 Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average
 No add-on controls are required. Shall maintain good operation and housekeeping practices - determined as MACT.
- 100 [LAC 33:III.1311.C]
- 101 [LAC 33:III.5109.A.1]

SPECIFIC REQUIREMENTS**AI ID: 1255 - PPG Industries Inc - Lake Charles Complex****Activity Number: PER20090031****Permit Number: 2269-V3****Air - Title V Regular Permit Minor Mod****FUG 0015 349 - Derivatives Plant Fugitives**

- 102 [40 CFR 60.480] 40 CFR 60 Subpart VV is superseded by HON Subpart H.
40 CFR 61 Subpart V is superseded by HON Subpart H.
- 103 [40 CFR 61.240]
- 104 [40 CFR 61.65(b)(8)] Shall comply with Leak Detection and Elimination requirements of 40 CFR 61.65(b)(8). [40 CFR 61.65(b)(8)]
- 105 [40 CFR 63.162(c)] Identify each piece of equipment in a process unit such that it can be distinguished readily from equipment that is not subject to 40 CFR 63 Subpart H. Subpart H. [40 CFR 63.162(c)]
- 106 [40 CFR 63.162(f)] Clearly identify leaking equipment, for leaking equipment detected as specified in 40 CFR 63.163, 40 CFR 63.164, 40 CFR 63.169, and 40 CFR 63.172 through 63.174. The identification may be removed after the equipment is repaired, except for valves or for connectors subject to 40 CFR 63.174(c)(1)(i). The identification on a valve may be removed after it has been monitored as specified in 40 CFR 63.168(f)(3) and 63.175(e)(i)(D), and no leak has been detected during the follow-up monitoring. If electing to comply using the provisions of 40 CFR 63.174(c)(1)(i), the identification on a connector may be removed after it is monitored as specified in 40 CFR 63.174(c)(1)(i) and no leak is detected during that monitoring. Subpart H. [40 CFR 63.162(f)]
- 107 [40 CFR 63.163(b)(1)] Pumps in light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, except as provided in 40 CFR 63.162(b) and 63.163(e) through (j). If a reading of 10,000 ppm (phase I); or 5,000 ppm (phase II); or 5,000 ppm (phase III, pumps handling polymerizing monomers), 2,000 ppm (phase III, pumps in food/medical service), or 1,000 ppm (phase III, all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(1)]
- 108 [40 CFR 63.163(b)(3)] Which Months: All Year - Statistical Basis: None specified
Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate the repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(3)]
- 109 [40 CFR 63.163(c)] Which Months: All Year - Statistical Basis: None specified
Pumps in light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.163(c)(3) and 40 CFR 63.171. Subpart H. [40 CFR 63.163(c)]
- 110 [40 CFR 63.163(d)(2)] Pumps in light liquid service: Implement a quality improvement program for pumps that complies with the requirements of 40 CFR 63.176, if, in Phase III, calculated on a 6-month rolling average, the greater of either 10 percent of the pumps in a process unit or three pumps in a process unit leak. Subpart H. [40 CFR 63.163(d)(2)]
- 111 [40 CFR 63.163(d)(4)] Pumps in light liquid service: Determine percent leaking pumps using the equation in 40 CFR 63.163(d)(4). Subpart H. [40 CFR 63.163(d)(4)]
- 112 [40 CFR 63.163(e)(1)] Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(1)]
- 113 [40 CFR 63.163(e)(2)] Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(2)]
- 114 [40 CFR 63.163(e)(3)] Pumps in light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(3)]

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115 [40 CFR 63.163(e)(4)]

Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquid dripping from the pump seal at the time of the weekly inspection, monitor the pump as specified in 40 CFR 63.180(b) to determine if there is a leak of organic HAP in the barrier fluid. If an instrument reading of 1,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.163(e)(6). Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(4)]

Which Months: All Year Statistical Basis: None specified

Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(6)(i)]

Pumps in light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(6)]

Pumps in light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the pump is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.163(e)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(e)(6). Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)]

Which Months: All Year Statistical Basis: None specified

Pumps in light liquid service (unsafe-to-monitor): Determine that the pump is unsafe-to-monitor because monitoring personnel would be exposed to an immediate danger as a consequence of comp lying with 40 CFR 63.163(b) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.163(b) through (e). Subpart H. [40 CFR 63.163(j)(1)]

Pumps in light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the pump as frequently as practicable during safe-to-monitor times but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.163(b) through (e). Subpart H. [40 CFR 63.163(j)(2)]

Which Months: All Year Statistical Basis: None specified

Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided in 40 CFR 63.162(b) and 40 CFR 63.164(h) and (i). Subpart H. [40 CFR 63.164(a)]

Compressors: Operate the seal system with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or equip with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid directly into a process stream. Subpart H. [40 CFR 63.164(b)]

Compressors: Ensure that the barrier fluid is not in light liquid service. Subpart H. [40 CFR 63.164(c)]

Compressors: Equip each barrier fluid system as described in 40 CFR 63.164(a) through (c) with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart H. [40 CFR 63.164(d)]

Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. Subpart H. [40 CFR 63.164(e)(2)]

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- 126 [40 CFR 63.164(g)] Compressors: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.164(g)]
- 127 [40 CFR 63.164(i)(2)] Compressors (no detectable emissions): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Comply with this requirement instead of the requirements in 40 CFR 63.164(a) through (h). Subpart H. [40 CFR 63.164(i)(2)]
- 128 [40 CFR 63.164] Which Months: All Year Statistical Basis: None specified Compressors (sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an alarm, unless the compressor is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined under 40 CFR 63.164(e)(2), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.164(g). Subpart H.
- 129 [40 CFR 63.165(a)] Which Months: All Year Statistical Basis: None specified Pressure relief device in gas/vapor service: Organic HAP < 500 ppm above background except during pressure releases, as determined by the method specified in 63.180(c). Subpart H. [40 CFR 63.165(a)]
- 130 [40 CFR 63.165(b)(1)] Which Months: All Year Statistical Basis: None specified Pressure relief devices in gas/vapor service: After each pressure release, return to a condition indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.165(b)(1)]
- 131 [40 CFR 63.165(b)(2)] Pressure relief devices in gas/vapor service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after the pressure release and being returned to organic HAP service, to confirm the condition indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in 40 CFR 63.180(c). Subpart H. [40 CFR 63.165(b)(2)]
- 132 [40 CFR 63.165(d)(2)] Which Months: All Year Statistical Basis: None specified Pressure relief devices in gas/vapor service (rupture disk): After each pressure release, install a new rupture disk upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.165(a) and (b). Subpart H. [40 CFR 63.165(d)(2)]
- 133 [40 CFR 63.166] Sampling connection systems: Equip with a closed-purge, closed-loop, or closed-vent system, except as provided in 40 CFR 63.162(b). Operate the system as specified in 40 CFR 63.166(b). Subpart H.
- 134 [40 CFR 63.167] Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 63.162(b) and 40 CFR 63.167(c) and (e). Ensure that the cap, blind flange, plug or second valve seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line, or during maintenance or repair. Operate each open-ended valve or line equipped with a second valve in a manner such that the valve on the process fluid end is closed before the second valve is closed. Subpart H.
- 135 [40 CFR 63.168(c)] Valves in gas/vapor service or light liquid service (Phase II): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]
- Which Months: All Year Statistical Basis: None specified

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- 136 [40 CFR 63.168(c)]
 Valves in gas/vapor service or light liquid service (Phase I): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]
 Which Months: All Year Statistical Basis: None specified
- 137 [40 CFR 63.168(d)(1)]
 Valves in gas/vapor service or light liquid service (Phase III, 2 percent or greater leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly, as specified in 40 CFR 63.180(b); or implement a quality improvement program for valves that complies with the requirements of 40 CFR 63.175 and monitor quarterly. If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). If electing to implement a quality improvement program, follow the procedures in 40 CFR 63.175. Subpart H. [40 CFR 63.168(d)(1)]
 Which Months: All Year Statistical Basis: None specified
- 138 [40 CFR 63.168(d)(2)]
 Valves in gas/vapor service or light liquid service (Phase III, less than 2 percent leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Permittee may elect to comply with the alternate standards in 40 CFR 63.168(d)(3) and (d)(4). Subpart H. [40 CFR 63.168(d)(2)]
 Which Months: All Year Statistical Basis: None specified
- 139 [40 CFR 63.168(e)(1)]
 Valves in gas/vapor service or light liquid service: Determine percent leaking valves using the equation in 40 CFR 63.168(e)(1). Subpart H. [40 CFR 63.168(e)(1)]
 Valves in gas/vapor service or light liquid service (after leak repair): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within three months (at least) after repair to determine whether the valve has resumed leaking. Subpart H. [40 CFR 63.168(f)(3)]
 Which Months: All Year Statistical Basis: None specified
- 140 [40 CFR 63.168(f)(3)]
 Valves in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.168(f)]
 Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.168(b) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (f). Subpart H. [40 CFR 63.168(h)(1)]
 Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valves as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (f). Subpart H. [40 CFR 63.168(h)(2)]
 Which Months: All Year Statistical Basis: None specified
- 141 [40 CFR 63.168(f)]
 Valves in gas/vapor service or light liquid service (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface or it is not accessible at anytime in a safe manner. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (d). Subpart H. [40 CFR 63.168(i)(1)]
 Valves in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the valves at least once per calendar year. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (d). Subpart H. [40 CFR 63.168(i)(3)]
 Which Months: All Year Statistical Basis: None specified
- 144 [40 CFR 63.168(i)(1)]
- 145 [40 CFR 63.168(i)(3)]

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- Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) if evidence of a potential leak to the atmosphere is found by visible, audible, olfactory, or any other detection method. If a reading of 10,000 ppm for agitators, 5,000 ppm for pumps handling polymerizing monomers, 2,000 ppm for all other pumps (including pumps in food/medical service), or 500 ppm for valves, connectors, instrumentation systems, and pressure relief devices, or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.169(c). Subpart H. [40 CFR 63.169(a)]
- Which Months: All Year Statistical Basis: None specified
- Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.169(c)]
- Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H.
- Closed-vent system (hard-piping): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(1)(i)]
- Which Months: All Year Statistical Basis: None specified
- Closed-vent system (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified
- Closed-vent system (duct work): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(2)(i)]
- Which Months: All Year Statistical Basis: None specified
- Closed-vent system (duct work): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(2)(ii)]
- Which Months: All Year Statistical Basis: None specified
- Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.172(i). Subpart H. [40 CFR 63.172(h)]
- Agitators in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(a)]
- Which Months: All Year Statistical Basis: None specified
- 146 [40 CFR 63.169(a)]
- 147 [40 CFR 63.169(c)]
- 148 [40 CFR 63.170]
- 149 [40 CFR 63.172(f)(1)(i)]
- 150 [40 CFR 63.172(f)(1)(iii)]
- 151 [40 CFR 63.172(f)(2)(i)]
- 152 [40 CFR 63.172(f)(2)(ii)]
- 153 [40 CFR 63.172(h)]
- 154 [40 CFR 63.173(a)]

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- Agitators in gas/vapor service or light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator. If there are indications of liquids dripping from the agitator, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(b)]
 Which Months: All Year Statistical Basis: None specified
- Agitators in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.173(c)]
- Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the agitator stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(1)]
- Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid organic HAP service. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(2)]
- Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(3)]
- Agitators in gas/vapor service or light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the agitator seal. If there are indications of liquid dripping from the agitator seal at the time of the weekly inspection, monitor the agitator as specified in 40 CFR 63.180(b) to determine the presence of organic HAP in the barrier fluid. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.173(d)(6). Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(4)]
- Which Months: All Year Statistical Basis: None specified
- Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(6)(i)]
- Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(6)]
- Agitators in gas/vapor service or light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the agitator is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.173(d)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.173(d)(6). Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)]
- Which Months: All Year Statistical Basis: None specified

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Which Months: All Year Statistical Basis: None specified

Agitators in gas/vapor service or light liquid service (difficult-to-monitor): Demonstrate that the agitator cannot be monitored without elevating the monitoring personnel more than two meters above a support surface or it is not accessible at anytime in a safe manner. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(h)(1)]

Agitators in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the agitator at least once per calendar year. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(h)(3)]

Which Months: All Year Statistical Basis: None specified

Agitators in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the agitator is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.173(a) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(j)(1)]

Agitators in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the agitator as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(j)(2)]

Which Months: All Year Statistical Basis: None specified

Connectors in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within 12 months after the compliance date, except as provided in 40 CFR 63.174(f) through (h). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(b)(1)]

Which Months: All Year Statistical Basis: None specified

Connectors in gas/vapor service or light liquid service (0.5% or greater leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Subpart H. [40 CFR 63.174(b)(3)(i)]

Which Months: All Year Statistical Basis: None specified

Connectors in gas/vapor service or light liquid service (less than 0.5% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every two years. Subpart H. [40 CFR 63.174(b)(3)(ii)]

Which Months: All Year Statistical Basis: None specified

Connectors in gas/vapor service or light liquid service (opened or otherwise had the seal broken): Presence of a leak monitored by 40 CFR 60, Appendix A, Method 21 within three months after being returned to organic HAP service or when it is reconnected. If monitoring detects a leak, repair according to the provisions of 40 CFR 63.174(d), as specified, except as provided in 40 CFR 63.174(c)(1)(ii). Subpart H. [40 CFR 63.174(c)(1)(i)]

Which Months: All Year Statistical Basis: None specified

Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Comply with the requirements of 40 CFR 63.169. Subpart H. [40 CFR 63.174(c)(2)(i)]

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- 174 [40 CFR 63.174(c)(2)(ii)] Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Organic HAP monitored by technically sound method within three months after being returned to organic HAP service after having been opened or otherwise had the seal broken. If monitoring detects a leak, implement repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(c)(2)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 175 [40 CFR 63.174(d)] Connectors in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Subpart H. [40 CFR 63.174(d)]
- 176 [40 CFR 63.174(f)(2)] Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of connectors as frequently as practicable during safe to monitor times, but not more frequently than the periodic schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.174(a). Subpart H. [40 CFR 63.174(f)(2)]
- Which Months: All Year Statistical Basis: None specified
- 177 [40 CFR 63.180] Comply with the test methods and procedures requirements provided in 40 CFR 63.180. Subpart H.
- 178 [40 CFR 63.181] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 63.181(a) through (k). Subpart H.
- 179 [40 CFR 63.182(b)] Submit Initial Notification: Due within 120 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(b)(1). Subpart H. [40 CFR 63.182(b)]
- 180 [40 CFR 63.182(c)] Submit Notification of Compliance Status: Due within 90 days of the compliance dates specified in the 40 CFR 63 subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(c)(1) through (c)(3). Subpart H. [40 CFR 63.182(c)]
- 181 [40 CFR 63.182(d)] Submit Periodic Reports: Due semiannually starting 6 months after the Notification of Compliance Status, as required in 40 CFR 63.182(c).
- 182 [LAC 33:III.2111] Include the information specified in 40 CFR 63.182(d)(2) through (d)(4). Subpart H. [40 CFR 63.182(d)]
- 183 [LAC 33:III.2122] Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
- Comply with LAC 33:III.2122 by implementing the Louisiana Consolidated Fugitive Emission Program Guidelines. Compliance is achieved through compliance with HON Subpart H.

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Permittee shall comply with Louisiana Fugitive Emission Program Consolidation. Compliance with the consolidated program in accordance with this specific condition shall serve to comply with each of the fugitive emission monitoring programs being consolidated, as indicated in the table in Appendix A. Non-compliance with the consolidated program in accordance with this specific condition may subject the permittee to enforcement action for one or more of the applicable fugitive emissions programs.

- i) Permittee shall apply the consolidated program to the combined universe of components subject to any of the programs being consolidated. Any component type which does not require periodic monitoring under the overall most stringent program (40 CFR 63 Subpart H) shall be monitored as required by the most stringent requirements of any other program being streamlined and will not be exempted. The consolidated program will include any exemptions based on size of component available in any of the programs being consolidated.
 - ii) Permittee shall use leak definitions and monitoring frequency based on the overall most stringent program. Percent leaker performance shall be calculated using the provisions of the overall most stringent program. Annual monitoring shall be defined as once every four quarters. Some allowance may be made in the first year of the consolidated program in order to allow for transition from existing monitoring schedules.
 - iii) Permittee shall comply with recordkeeping and reporting requirements of the overall most stringent program. Semiannual reports shall be submitted on August 15 and February 15, to cover the periods January 1 through June 30 and July 1 through December 31, respectively. The semiannual reports shall include any monitoring performed within the reporting periods.
- Compliance with 40 CFR 63, Subpart H constitutes compliance with MACT.

184 [LAC 33:III.501.C.6]
 185 [LAC 33:III.5109.A.2]

UNF 0009 - Derivatives Plant Common Sources

All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.

All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.

All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A.

Derivatives Plant Common Sources is part of a facility (Lake Charles Complex) that is subject to the requirements of 40 CFR 68. Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.

Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.

If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.

Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard.

Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109.B.

186 [40 CFR 60.]
 187 [40 CFR 61.]
 188 [40 CFR 63.]
 189 [40 CFR 68.10]
 190 [LAC 33:III.2113.A]
 191 [LAC 33:III.219]
 192 [LAC 33:III.2901.D]
 193 [LAC 33:III.2901.F]
 194 [LAC 33:III.5105.A.1]
 195 [LAC 33:III.5105.A.2]

SPECIFIC REQUIREMENTS

Air ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER20090031

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UNF 0009 - Derivatives Plant Common Sources

- 196 [LAC 33:III.5105.A.3] Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.
- 197 [LAC 33:III.5105.A.4] Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A.
- 198 [LAC 33:III.5107.A.2] Include a certification statement with the annual emission report and revisions to any emission report that attests that the information contained in the emission report is true, accurate, and complete, and that is signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official.
- 199 [LAC 33:III.5107.A] Submit Annual Emissions Report (TEDI): Due annually, by the 31st of March unless otherwise directed by DEQ, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.
- 200 [LAC 33:III.5107.B.1] Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but in no case later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere that results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).
- 201 [LAC 33:III.5107.B.2] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.3923.
- 202 [LAC 33:III.5107.B.3] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.3931.
- 203 [LAC 33:III.5107.B.4] Submit written report: Due by certified mail to SPOC within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through B.3. Include the information specified in LAC 33:III.5107.B.4.i through B.4.viii.
- 204 [LAC 33:III.5107.B.5] Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, IF THEY CAN BE MEASURED AND CAN BE RELIABLY QUANTIFIED USING GOOD ENGINEERING PRACTICES, to DEQ along with the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.
- 205 [LAC 33:III.5109.C] Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by DEQ.
- 206 [LAC 33:III.5113.A.1] Submit notification in writing: Due to SPOC not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up.

SPECIFIC REQUIREMENTS

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UNF 0009 - Derivatives Plant Common Sources

- 207 [LAC 33:III.511.3.A.2] Submit notification in writing: Due to SPOC within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source.
- 208 [LAC 33:III.535] Comply with the Part 70 General Conditions as set forth in LAC 33:III.535 and the Louisiana General Conditions as set forth in LAC 33:III.537.
- [LAC 33:III.535, LAC 33:III.537]
- 209 [LAC 33:III.5609.A.1.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 5 when the administrative authority declares an Air Pollution Alert.
- 210 [LAC 33:III.5609.A.2.b] Activate the preplanned strategy listed in LAC 33:III.5611. Table 6 when the administrative authority declares an Air Pollution Warning.
- 211 [LAC 33:III.5609.A.3.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 7 when the administrative authority declares an Air Pollution Emergency.
- 212 [LAC 33:III.5609.A] Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611. Tables 5, 6, and 7.
- 213 [LAC 33:III.5901.A] Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.
- 214 [LAC 33:III.5911.A] Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III. Chapter 59, whichever is later.
- Include the information listed in LAC 33:III.5911.B, and submit to the Office of Environmental Compliance.
- 215 [LAC 33:III.919.D] Submit Emission Inventory (EI) Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment.
- Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.
- 216 [LAC 33:III.927] Report the unauthorized discharge of any air pollutant into the atmosphere in accordance with LAC 33:III. Chapter 39, Notification Regulations and Procedures for Unauthorized Discharges. Submit written reports to the department pursuant to LAC 33:III.3925. Submit timely and appropriate follow-up reports detailing methods and procedures to be used to prevent similar atmospheric releases.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LAKE CHARLES COMPLEX – DERIVATIVES PLANT COMMON SOURCES
AGENCY INTEREST NO. 1255
PPG INDUSTRIES, INC.
LAKE CHARLES, CALCASIEU PARISH, LOUISIANA

APPENDIX A. Streamlined Equipment Leaks Monitoring Program Stringency Table

Unit or Plant Site	Program Being Consolidated	Stream Applicability	Overall Most Stringent Program
Derivatives Plant	LAC 33:III.2122 – Fugitive Emission Control for Ozone Nonattainment Areas and Specified Parish	≥ 10% VOC	40 CFR 63 Subpart H – HON
	40 CFR 63 Subpart H – HON	≥ 5% VOHAP	